

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530341

Luminaire Tested: **GALN-SA5C-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19464 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

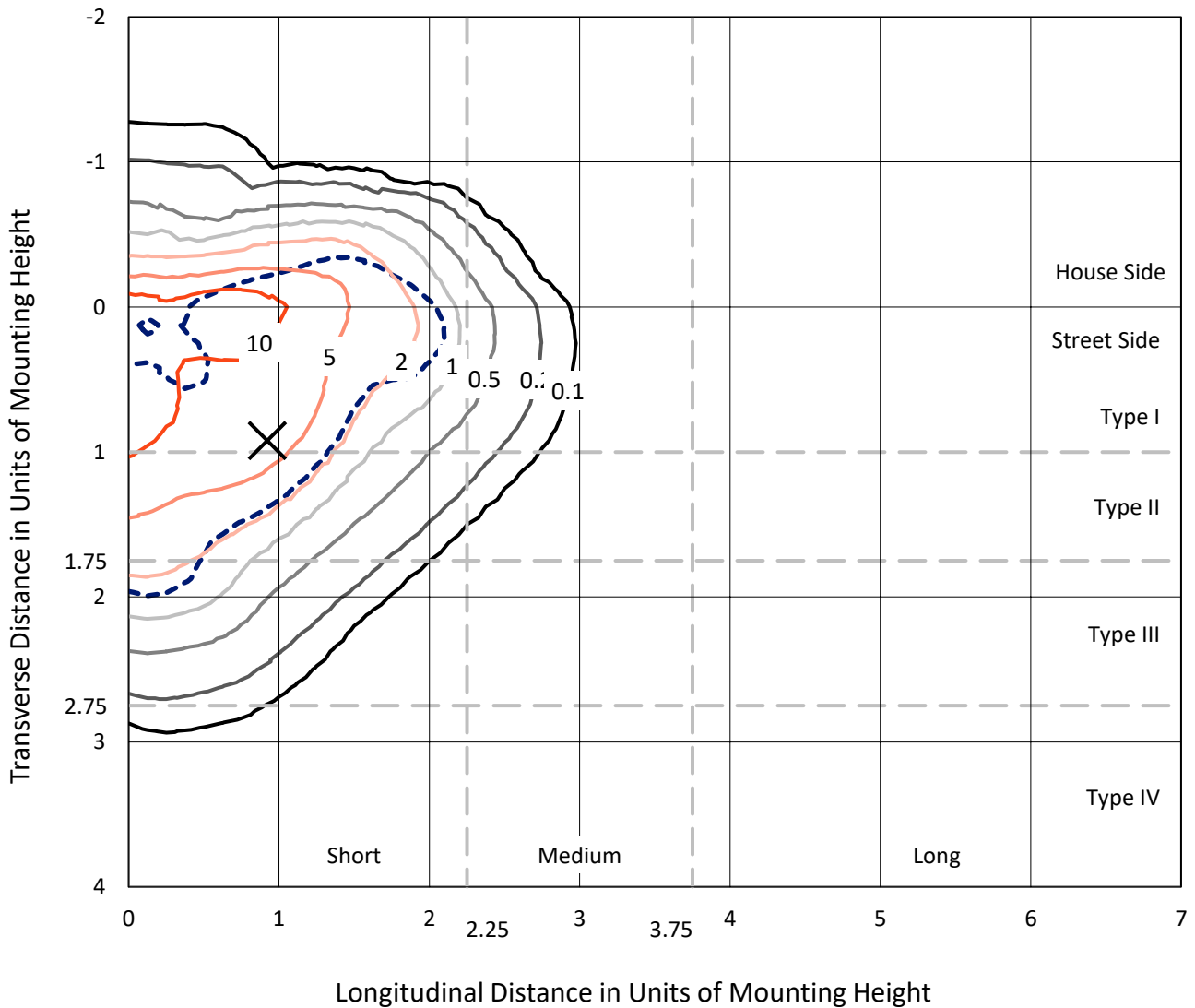
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

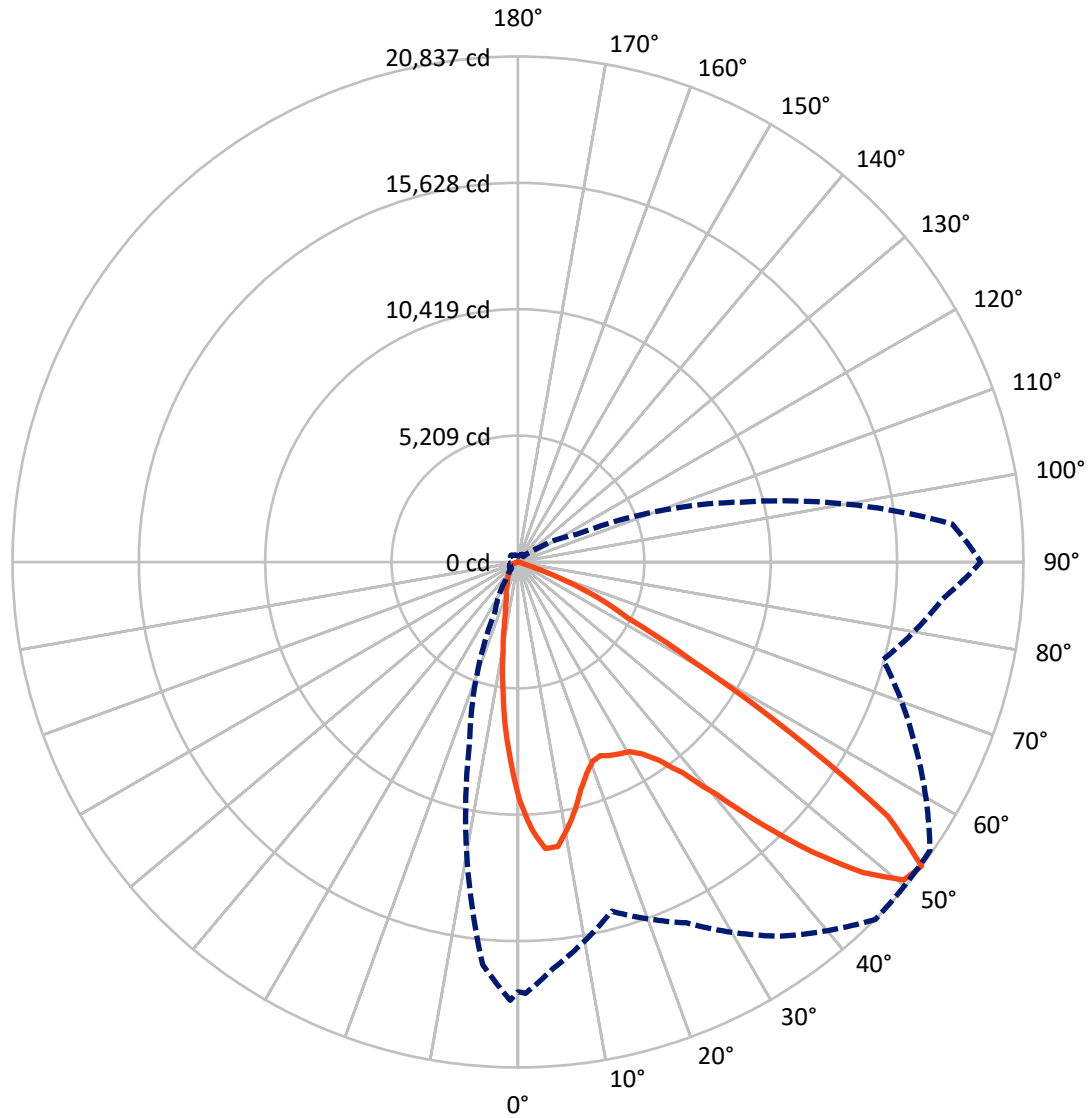
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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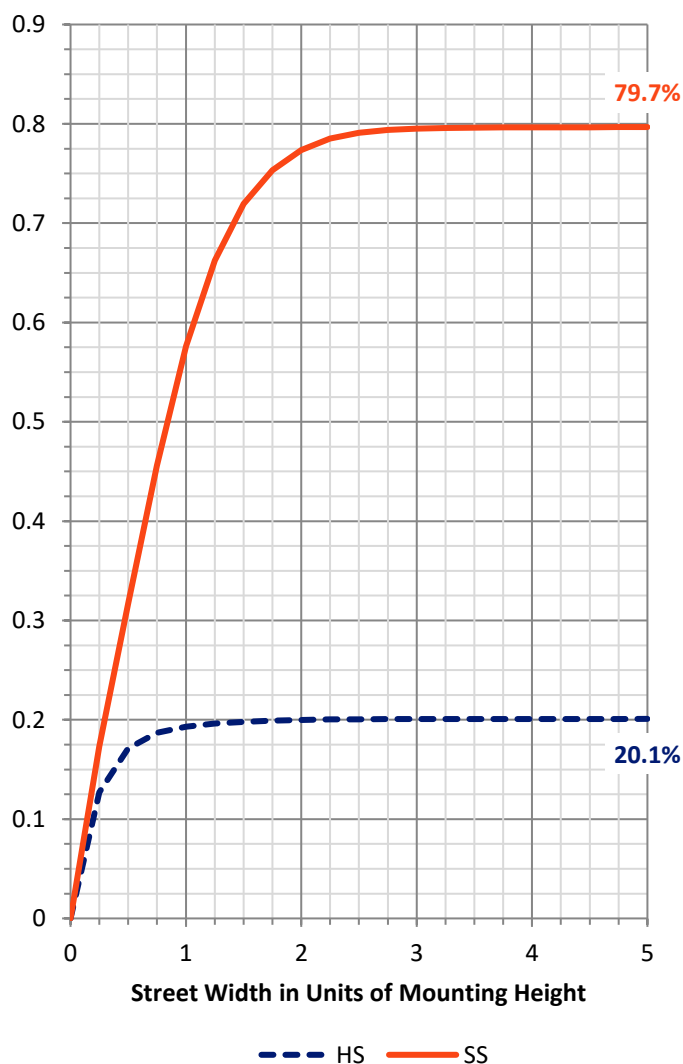
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3950.2	0.0	3950.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	15513.8	0.0	15513.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	19464.0	0.0	19464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.7	3.7
10°-20°	1420.0	7.3
20°-30°	2161.0	11.1
30°-40°	3229.9	16.6
40°-50°	4599.7	23.6
50°-60°	4944.6	25.4
60°-70°	2191.0	11.3
70°-80°	177.3	0.9
80°-90°	20.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19464.0	100.0
0°-180°	19464.0	100.0

Coefficient of Utilization

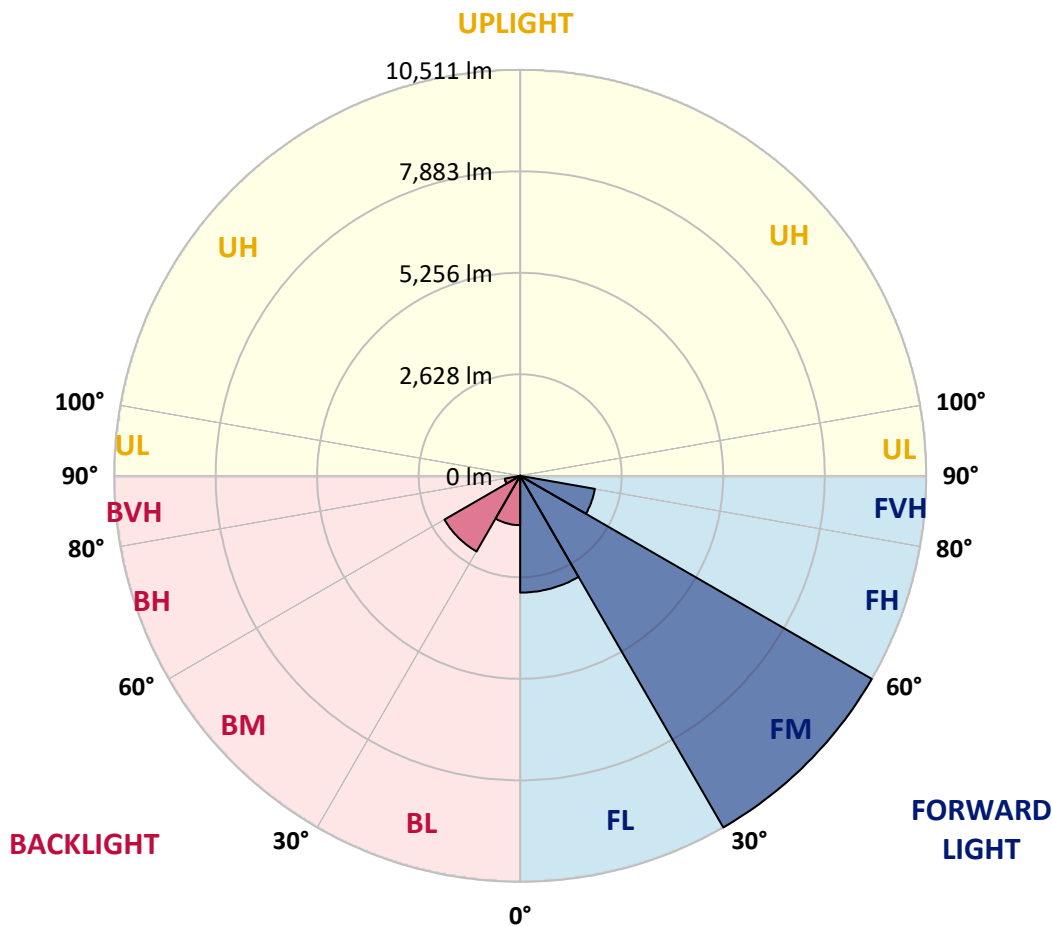


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3023.2	15.5			
FM (30°-60°)	10511.2	54.0			
FH (60°-80°)	1964.2	10.1			G2/5000
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1277.7	6.6	B3/2500		
BM (30°-60°)	2263.0	11.6	B2/2500		
BH (60°-80°)	404.2	2.1	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2
2.5°	10443.4	10474.0	10642.5	10853.0	10964.0	11216.7	11040.6	11086.5	10990.8	10653.9	10389.8
5°	10125.6	10121.8	10336.2	10856.8	11350.7	11852.2	11867.5	11599.5	11128.6	10611.8	9873.0
7.5°	9168.6	9317.9	9539.9	10370.6	11285.6	11660.8	11840.7	11526.8	10803.2	10064.4	9264.3
10°	8445.1	8521.6	8896.8	9899.8	10569.7	11071.2	11182.2	11002.3	10447.2	9524.6	8628.8
12.5°	8027.8	8066.1	8506.3	9348.5	10056.7	10428.1	10481.7	10565.9	10167.8	9302.6	8226.8
15°	8031.6	8062.2	8655.6	9360.0	9639.5	9539.9	9716.0	9712.2	9884.5	9260.5	8563.7
17.5°	8609.7	8644.1	9180.1	9528.4	9405.9	9172.4	9160.9	9337.0	9700.7	9784.9	9072.9
20°	9605.0	9685.4	10079.7	10060.6	9371.5	8900.6	8770.5	8904.4	9750.5	10229.0	10098.8
22.5°	10944.9	11055.9	11331.5	10803.2	9528.4	8716.9	8674.7	8935.1	10079.7	11220.5	11262.6
25°	12499.1	12686.7	12820.7	12143.1	10087.4	9034.6	8835.5	9283.4	10523.8	12296.2	12744.1
27.5°	13528.9	13724.2	13693.5	12725.0	10462.5	9118.8	8950.4	9367.7	10910.4	12552.7	13517.4
30°	14332.9	14451.5	14665.9	13038.9	10837.7	9356.2	9069.1	9723.7	11036.8	12996.8	14451.5
32.5°	15270.8	15351.2	15366.5	13594.0	11415.8	9654.8	9436.6	10167.8	11595.7	13421.7	15278.4
35°	16216.3	16335.0	16086.2	14279.3	11771.8	10209.9	10049.1	10937.2	12043.6	13862.0	16189.5
37.5°	17242.3	17303.6	16729.3	14562.6	12280.9	11113.3	11025.3	11768.0	12820.7	14658.3	17200.2
40°	18103.7	18161.1	17414.6	14910.9	12816.9	12376.6	12602.5	13352.8	13877.3	15175.1	17705.5
42.5°	18582.2	18716.2	17644.3	14719.5	13892.6	13808.4	14811.4	15075.5	15102.3	15320.5	18157.3
45°	18712.3	18651.1	17265.3	14876.5	14834.4	16162.7	17073.9	17422.2	16319.7	15588.5	18272.1
47.5°	18111.3	18191.7	16706.4	14738.6	16070.9	17946.7	19125.8	19772.8	17227.0	15355.0	17988.8
50°	17625.1	17521.8	16526.4	14639.1	16403.9	18788.9	20607.3	20752.8	18061.5	15642.1	17678.7
52.5°	17720.8	17785.9	16813.5	14903.3	16411.6	18838.7	20837.0	20737.5	18088.3	15577.0	17567.7
55°	17923.7	17636.6	16691.0	14321.4	15312.9	17449.0	18494.1	18341.0	16694.9	14884.1	17295.9
57.5°	15466.0	15910.1	15347.3	12786.3	12568.0	13146.1	13127.0	13597.8	12453.2	12809.2	15745.5
60°	12552.7	12629.3	12839.9	10937.2	8697.7	8498.6	8223.0	7924.4	8380.0	10952.5	14321.4
62.5°	11040.6	10948.7	11699.0	9949.5	6140.5	5141.3	5095.4	5279.1	6465.9	10447.2	13433.2
65°	8024.0	8138.8	8682.4	7721.5	4609.2	3923.9	3855.0	4398.6	5233.2	8372.3	10252.0
67.5°	4900.1	5122.2	5171.9	4762.3	3127.7	2484.5	2385.0	2878.8	3778.5	5416.9	6010.3
70°	2262.5	2530.5	2783.1	2599.4	1810.7	1022.1	964.7	1209.7	1906.5	3116.2	3188.9
72.5°	685.3	689.1	964.7	1006.8	585.7	229.7	202.9	268.0	647.0	1029.8	1083.4
75°	49.8	53.6	130.2	149.3	111.0	57.4	61.3	72.7	137.8	229.7	172.3
77.5°	3.8	3.8	3.8	19.1	34.5	38.3	49.8	57.4	72.7	84.2	76.6
80°	3.8	0.0	3.8	15.3	26.8	38.3	45.9	53.6	57.4	65.1	57.4
82.5°	0.0	0.0	0.0	11.5	26.8	38.3	42.1	57.4	65.1	76.6	65.1
85°	0.0	0.0	0.0	11.5	26.8	42.1	38.3	19.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2
2.5°	10435.7	10286.4	9945.7	9773.4	9367.7	9310.2	8912.1	8847.0	8713.0	8640.3	8464.2
5°	9547.6	9367.7	8812.6	8345.5	7801.9	7422.9	7132.0	6867.8	6714.7	6573.1	6638.1
7.5°	8824.0	8299.6	7683.2	6902.3	6274.5	5868.7	5424.6	5060.9	4846.5	4701.1	4735.5
10°	8066.1	7725.3	6867.8	5991.2	5233.2	4946.1	4597.7	4318.2	4015.8	3755.5	3633.0
12.5°	7828.7	7323.4	6247.7	5355.7	4781.4	4502.0	4103.9	3782.3	3395.6	3077.9	2966.9
15°	7870.8	7384.6	6079.2	5126.0	4448.4	3966.0	3491.3	3093.2	2668.3	2446.2	2331.4
17.5°	8556.1	7713.9	6190.2	4884.8	3985.2	3315.2	2729.5	2224.2	1906.5	1676.8	1627.0
20°	9398.3	8425.9	6427.6	4708.7	3606.2	2637.6	1994.5	1558.1	1293.9	1255.7	1244.2
22.5°	10631.0	9589.7	6936.7	4590.0	3143.0	2055.8	1366.7	1133.2	1060.4	1052.8	1056.6
25°	12353.7	11048.2	7491.8	4490.5	2794.6	1584.9	1117.8	960.9	937.9	926.4	945.6
27.5°	13100.2	11928.7	7786.6	4276.1	2476.9	1427.9	1102.5	953.2	888.1	869.0	880.5
30°	14022.8	12514.5	8249.8	3908.6	2009.8	1175.3	1029.8	1037.4	1006.8	911.1	880.5
32.5°	15247.8	13245.6	8483.3	3648.3	1795.4	972.4	754.2	692.9	773.3	788.6	815.4
35°	16032.6	13988.3	8602.0	3495.2	1684.4	830.7	639.3	581.9	562.7	566.6	581.9
37.5°	17491.1	14991.3	8751.3	3334.4	1600.2	723.5	578.1	524.5	497.7	497.7	513.0
40°	18364.0	15787.6	8954.2	3246.3	1516.0	658.5	524.5	478.5	455.6	455.6	463.2
42.5°	18582.2	16181.9	8885.3	3215.7	1420.3	643.1	478.5	444.1	417.3	413.4	409.6
45°	18972.7	16782.9	8896.8	3181.3	1320.7	585.7	451.7	413.4	375.2	371.3	367.5
47.5°	19401.4	17215.5	8919.8	3047.3	1225.0	490.0	470.9	382.8	336.9	329.2	329.2
50°	19033.9	17560.0	9118.8	2913.3	1102.5	398.1	463.2	359.9	298.6	287.1	290.9
52.5°	19079.9	17965.8	9539.9	2725.7	949.4	317.7	375.2	340.7	271.8	252.7	256.5
55°	18344.8	17537.1	9597.3	2526.6	742.7	245.0	287.1	298.6	229.7	222.0	222.0
57.5°	15791.4	14849.7	8468.0	2048.1	490.0	202.9	206.7	260.3	199.1	191.4	195.2
60°	13513.6	11921.1	6814.2	1351.4	306.3	160.8	149.3	264.1	176.1	172.3	183.8
62.5°	12319.2	9796.4	5168.1	838.4	210.6	122.5	103.4	214.4	153.1	153.1	168.4
65°	8900.6	6580.7	3005.2	440.2	149.3	95.7	76.6	122.5	126.3	130.2	137.8
67.5°	5512.6	3322.9	1267.1	214.4	99.5	65.1	49.8	76.6	84.2	84.2	91.9
70°	2721.9	1324.6	421.1	122.5	76.6	53.6	34.5	42.1	42.1	38.3	42.1
72.5°	842.2	398.1	107.2	76.6	53.6	34.5	19.1	15.3	7.7	0.0	3.8
75°	95.7	76.6	68.9	53.6	34.5	15.3	3.8	0.0	0.0	0.0	0.0
77.5°	57.4	65.1	65.1	53.6	34.5	11.5	0.0	0.0	0.0	0.0	0.0
80°	45.9	49.8	53.6	49.8	30.6	15.3	0.0	0.0	0.0	0.0	0.0
82.5°	57.4	65.1	72.7	65.1	42.1	19.1	7.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.5	3.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2
2.5°	8391.5	8307.2	8425.9	8249.8	8246.0	8249.8	8200.0	8154.1	8226.8	8422.1	8441.2
5°	6404.6	6584.5	6642.0	6829.5	6726.2	6573.1	6603.7	6500.3	6753.0	6864.0	6776.0
7.5°	4662.8	4651.3	5037.9	5060.9	5110.7	5114.5	5106.8	4904.0	4697.2	4743.2	4881.0
10°	3617.7	3422.4	3610.0	3590.9	3713.4	3678.9	3728.7	3510.5	3583.2	3583.2	3671.3
12.5°	2947.7	2741.0	2706.6	2656.8	2706.6	2725.7	2744.8	2702.7	2825.2	2882.7	2943.9
15°	2251.0	2136.1	2105.5	2009.8	2025.1	2078.7	2124.7	2143.8	2105.5	2193.6	2201.2
17.5°	1634.7	1630.8	1650.0	1646.1	1630.8	1619.3	1615.5	1565.7	1550.4	1558.1	1588.7
20°	1240.3	1271.0	1336.0	1401.1	1435.6	1393.5	1336.0	1251.8	1217.4	1225.0	1228.9
22.5°	1060.4	1106.4	1194.4	1267.1	1301.6	1225.0	1121.7	1048.9	1033.6	1029.8	1026.0
25°	960.9	1014.5	1079.6	1102.5	1098.7	1052.8	976.2	945.6	937.9	930.3	895.8
27.5°	907.3	926.4	937.9	964.7	976.2	945.6	926.4	880.5	872.8	872.8	849.9
30°	876.7	865.2	880.5	861.3	876.7	853.7	857.5	857.5	838.4	846.0	846.0
32.5°	815.4	819.2	819.2	781.0	792.4	765.6	792.4	815.4	819.2	823.1	853.7
35°	597.2	666.1	700.6	700.6	712.0	692.9	689.1	662.3	627.8	593.4	578.1
37.5°	524.5	551.3	597.2	624.0	643.1	627.8	593.4	551.3	532.1	516.8	501.5
40°	467.0	490.0	520.6	551.3	589.5	570.4	516.8	497.7	474.7	474.7	459.4
42.5°	421.1	432.6	451.7	497.7	539.8	501.5	463.2	447.9	436.4	432.6	428.8
45°	379.0	382.8	402.0	440.2	490.0	451.7	413.4	394.3	398.1	402.0	398.1
47.5°	340.7	348.4	359.9	405.8	436.4	417.3	375.2	363.7	363.7	363.7	367.5
50°	294.8	313.9	336.9	375.2	398.1	386.7	352.2	336.9	329.2	329.2	333.1
52.5°	264.1	279.5	310.1	356.0	386.7	367.5	333.1	310.1	294.8	290.9	298.6
55°	229.7	256.5	306.3	340.7	382.8	363.7	325.4	298.6	271.8	268.0	268.0
57.5°	206.7	248.8	294.8	336.9	371.3	356.0	325.4	290.9	256.5	252.7	252.7
60°	195.2	241.2	287.1	325.4	371.3	348.4	321.6	283.3	245.0	245.0	241.2
62.5°	183.8	225.9	271.8	310.1	356.0	336.9	310.1	271.8	233.5	233.5	225.9
65°	153.1	195.2	225.9	260.3	310.1	290.9	264.1	237.3	206.7	199.1	202.9
67.5°	107.2	134.0	164.6	199.1	229.7	222.0	210.6	191.4	164.6	160.8	157.0
70°	53.6	72.7	99.5	134.0	160.8	153.1	145.5	130.2	114.8	111.0	111.0
72.5°	7.7	23.0	42.1	61.3	84.2	88.0	84.2	80.4	76.6	72.7	76.6
75°	0.0	0.0	0.0	15.3	34.5	42.1	49.8	57.4	57.4	49.8	61.3
77.5°	0.0	0.0	0.0	0.0	3.8	19.1	38.3	49.8	61.3	53.6	72.7
80°	0.0	0.0	0.0	0.0	3.8	23.0	38.3	53.6	61.3	53.6	76.6
82.5°	0.0	0.0	0.0	0.0	3.8	26.8	38.3	49.8	57.4	53.6	68.9
85°	0.0	0.0	0.0	0.0	11.5	23.0	15.3	7.7	3.8	3.8	11.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530341

CATALOG NUMBER: GALN-SA5C-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2	9869.2
2.5°	8548.4	8820.2	9111.2	9222.2	9566.7	9827.0	10003.1	10382.1	10439.6	10443.4
5°	6867.8	7005.6	7503.3	7736.8	8249.8	8648.0	9072.9	9685.4	10095.0	10125.6
7.5°	4881.0	5263.8	5474.4	6083.0	6714.7	7338.7	7970.4	8682.4	9157.1	9168.6
10°	3927.8	4176.6	4551.8	5007.3	5539.4	6174.9	7017.1	7844.0	8326.4	8445.1
12.5°	3162.1	3598.5	4027.3	4498.2	4904.0	5382.5	6289.8	7392.3	7790.4	8027.8
15°	2434.7	2832.9	3338.2	3889.5	4348.9	4988.2	6021.8	7281.3	7951.2	8031.6
17.5°	1795.4	2151.5	2618.5	3139.1	3828.2	4735.5	6067.7	7844.0	8475.7	8609.7
20°	1290.1	1496.8	1864.3	2469.2	3345.9	4440.7	6113.7	8414.4	9375.3	9605.0
22.5°	1022.1	1106.4	1347.5	1883.5	2806.1	4130.7	6439.1	9505.5	10611.8	10944.9
25°	888.1	934.1	1048.9	1485.3	2465.4	4100.0	6959.7	10814.7	12258.0	12499.1
27.5°	857.5	865.2	964.7	1362.8	2281.6	3897.1	7158.8	11745.0	13283.9	13528.9
30°	903.5	1026.0	1033.6	1152.3	1940.9	3495.2	7262.1	12644.6	14152.9	14332.9
32.5°	781.0	742.7	769.5	892.0	1707.4	3261.6	7457.4	13429.4	15144.4	15270.8
35°	543.6	570.4	631.7	773.3	1493.0	3016.6	7507.1	14294.6	16086.2	16216.3
37.5°	501.5	516.8	566.6	658.5	1313.1	2878.8	7438.2	14926.2	17062.4	17242.3
40°	467.0	486.2	513.0	597.2	1179.1	2725.7	7342.5	15496.6	17659.6	18103.7
42.5°	440.2	455.6	478.5	570.4	1064.2	2572.6	7208.5	16300.6	18195.5	18582.2
45°	409.6	432.6	459.4	555.1	999.2	2469.2	7109.0	16250.8	18505.6	18712.3
47.5°	379.0	417.3	447.9	516.8	980.0	2419.4	7151.1	16063.2	18253.0	18111.3
50°	348.4	398.1	451.7	428.8	934.1	2319.9	7200.9	16319.7	17651.9	17625.1
52.5°	321.6	379.0	421.1	352.2	830.7	2224.2	7683.2	16656.6	18076.9	17720.8
55°	283.3	340.7	336.9	283.3	673.8	2151.5	8062.2	16664.2	17789.7	17923.7
57.5°	256.5	302.4	264.1	237.3	497.7	1799.3	7445.9	13973.0	15228.7	15466.0
60°	237.3	294.8	199.1	187.6	325.4	1297.8	6500.3	10822.4	12104.8	12552.7
62.5°	218.2	279.5	157.0	153.1	225.9	922.6	5344.2	9057.6	10431.9	11040.6
65°	191.4	199.1	126.3	118.7	160.8	497.7	3254.0	6236.2	7798.1	8024.0
67.5°	157.0	153.1	103.4	95.7	107.2	241.2	1435.6	3123.8	4521.1	4900.1
70°	126.3	126.3	88.0	76.6	76.6	111.0	375.2	1244.2	2044.3	2262.5
72.5°	91.9	95.7	68.9	61.3	57.4	53.6	61.3	248.8	536.0	685.3
75°	80.4	84.2	68.9	53.6	42.1	34.5	26.8	23.0	30.6	49.8
77.5°	88.0	88.0	72.7	49.8	38.3	26.8	15.3	7.7	7.7	3.8
80°	111.0	114.8	95.7	65.1	45.9	30.6	19.1	7.7	3.8	3.8
82.5°	118.7	130.2	107.2	80.4	57.4	34.5	19.1	3.8	0.0	0.0
85°	30.6	49.8	84.2	72.7	57.4	34.5	19.1	3.8	0.0	0.0
87.5°	0.0	3.8	11.5	11.5	15.3	15.3	11.5	3.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)